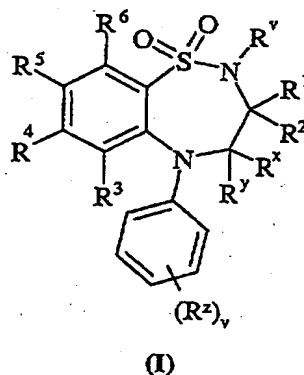


Claims

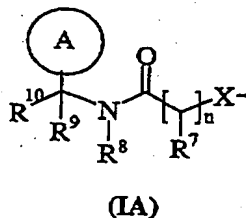
What we claim is:

- 5 1. A compound of formula (I):



wherein:

- R^v is selected from hydrogen or C_{1-6} alkyl;
- 10 One of R^1 and R^2 are selected from hydrogen or C_{1-6} alkyl and the other is selected from C_{1-6} alkyl;
- R^x and R^y are independently selected from hydrogen, hydroxy, amino, mercapto, C_{1-6} alkyl, C_{1-6} alkoxy, N -(C_{1-6} alkyl)amino, N,N -(C_{1-6} alkyl) $_2$ amino, C_{1-6} alkylS(O) $_a$ wherein a is 0 to 2;
- 15 R^z is selected from halo, nitro, cyano, hydroxy, amino, carboxy, carbamoyl, mercapto, sulphonamoyl, C_{1-6} alkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, C_{1-6} alkoxy, C_{1-6} alkanoyl, C_{1-6} alkanoyloxy, N -(C_{1-6} alkyl)amino, N,N -(C_{1-6} alkyl) $_2$ amino, C_{1-6} alkanoylamino, N -(C_{1-6} alkyl)carbamoyl, N,N -(C_{1-6} alkyl) $_2$ carbamoyl, C_{1-6} alkylS(O) $_a$ wherein a is 0 to 2, C_{1-6} alkoxycarbonyl, N -(C_{1-6} alkyl)sulphonamoyl and N,N -(C_{1-6} alkyl) $_2$ sulphonamoyl;
- 20 v is 0-5;
- one of R^4 and R^5 is a group of formula (IA):



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R^3 and R^6 and the other of R^4 and R^5 are independently selected from hydrogen, halo, nitro, cyano, hydroxy, amino, carboxy, carbamoyl, mercapto, sulphamoyl, C_{1-6} alkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, C_{1-6} alkoxy, C_{1-6} alkanoyl, C_{1-6} alkanoyloxy, N -(C_{1-6} alkyl)amino, N,N -(C_{1-6} alkyl)₂amino, C_{1-6} alkanoylamino, N -(C_{1-6} alkyl)carbamoyl, N,N -(C_{1-6} alkyl)₂carbamoyl, C_{1-6} alkylS(O)_a wherein a is 0 to 2, C_{1-6} alkoxycarbonyl, N -(C_{1-6} alkyl)sulphamoyl and N,N -(C_{1-6} alkyl)₂sulphamoyl; wherein R^3 and R^6 and the other of R^4 and R^5 may be optionally substituted on carbon by one or more R^{17} ;

X is -O-, -N(R^a)-, -S(O)_b- or -CH(R^a)-; wherein R^a is hydrogen or C_{1-6} alkyl and b is 0-2;

10 Ring A is aryl or heteroaryl; wherein Ring A is optionally substituted on carbon by one or more substituents selected from R^{18} ;

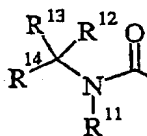
R^7 is hydrogen, C_{1-6} alkyl, carbocyclyl or heterocyclyl; wherein R^7 is optionally substituted on carbon by one or more substituents selected from R^{19} ; and wherein if said heterocyclyl contains an -NH- group, that nitrogen may be optionally substituted by a group
15 selected from R^{20} ;

R^8 is hydrogen or C_{1-6} alkyl;

R^9 is hydrogen or C_{1-6} alkyl;

R^{10} is hydrogen, halo, nitro, cyano, hydroxy, amino, carbamoyl, mercapto, sulphamoyl, hydroxyaminocarbonyl, C_{1-10} alkyl, C_{2-10} alkenyl, C_{2-10} alkynyl, C_{1-10} alkoxy, C_{1-10} alkanoyl, C_{1-10} alkanoyloxy, N -(C_{1-10} alkyl)amino, N,N -(C_{1-10} alkyl)₂amino, N,N,N -(C_{1-10} alkyl)₃ammonio, C_{1-10} alkanoylamino, N -(C_{1-10} alkyl)carbamoyl, N,N -(C_{1-10} alkyl)₂carbamoyl, C_{1-10} alkylS(O)_a wherein a is 0 to 2, N -(C_{1-10} alkyl)sulphamoyl, N,N -(C_{1-10} alkyl)₂sulphamoyl, N -(C_{1-10} alkyl)sulphamoylamino, N,N -(C_{1-10} alkyl)₂sulphamoylamino, C_{1-10} alkoxycarbonylamino, carbocyclyl, carbocyclyl- C_{1-10} alkyl, heterocyclyl, heterocyclyl- C_{1-10} alkyl, carbocyclyl-(C_{1-10} alkylene)_p- R^{21} -(C_{1-10} alkylene)_q- or heterocyclyl-(C_{1-10} alkylene)_r- R^{22} -(C_{1-10} alkylene)_s-; wherein R^{10} is optionally substituted on carbon by one or more substituents selected from R^{23} ; and wherein if said heterocyclyl contains an -NH- group, that nitrogen may be optionally substituted by a group selected from
25 R^{24} ; or R^{10} is a group of formula (IB):
30

- 60 -



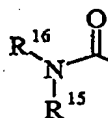
(IB)

wherein:

R^{11} is hydrogen or C_{1-6} alkyl;

- 5 R^{12} and R^{13} are independently selected from hydrogen, halo, carbamoyl, sulphamoyl, C_{1-10} alkyl, C_{2-10} alkenyl, C_{2-10} alkynyl, C_{1-10} alkanoyl, N -(C_{1-10} alkyl)carbamoyl, N,N -(C_{1-10} alkyl) $_2$ carbamoyl, C_{1-10} alkylS(O) $_a$ wherein a is 0 to 2, N -(C_{1-10} alkyl)sulphamoyl, N,N -(C_{1-10} alkyl) $_2$ sulphamoyl, N -(C_{1-10} alkyl)sulphamoylamino, N,N -(C_{1-10} alkyl) $_2$ sulphamoylamino, carbocyclyl or heterocyclyl; wherein R^{12} and R^{13} may be
10 independently optionally substituted on carbon by one or more substituents selected from R^{23} ; and wherein if said heterocyclyl contains an -NH- group, that nitrogen may be optionally substituted by a group selected from R^{26} ;

- R^{14} is selected from hydrogen, halo, carbamoyl, sulphamoyl, hydroxyaminocarbonyl, C_{1-10} alkyl, C_{2-10} alkenyl, C_{2-10} alkynyl, C_{1-10} alkanoyl, N -(C_{1-10} alkyl)carbamoyl,
15 N,N -(C_{1-10} alkyl) $_2$ carbamoyl, C_{1-10} alkylS(O) $_a$ wherein a is 0 to 2, N -(C_{1-10} alkyl)sulphamoyl, N,N -(C_{1-10} alkyl) $_2$ sulphamoyl, N -(C_{1-10} alkyl)sulphamoylamino, N,N -(C_{1-10} alkyl) $_2$ sulphamoylamino, carbocyclyl, carbocyclyl C_{1-10} alkyl, heterocyclyl, heterocyclyl C_{1-10} alkyl, carbocyclyl-(C_{1-10} alkylene) $_p$ - R^{27} -(C_{1-10} alkylene) $_q$ - or heterocyclyl-(C_{1-10} alkylene) $_r$ - R^{28} -(C_{1-10} alkylene) $_s$ -; wherein R^{14} may be optionally substituted
20 on carbon by one or more substituents selected from R^{29} ; and wherein if said heterocyclyl contains an -NH- group, that nitrogen may be optionally substituted by a group selected from R^{30} ; or R^{14} is a group of formula (IC):



(IC)

- 25 R^{15} is hydrogen or C_{1-6} alkyl; and R^{16} is hydrogen or C_{1-6} alkyl; wherein R^{16} may be optionally substituted on carbon by one or more groups selected from R^{31} ; or R^{15} and R^{16} together with the nitrogen to which they are attached form a heterocyclyl; wherein said heterocyclyl may be optionally substituted on carbon by one or more R^{37} ; and wherein if said

heterocyclyl contains an -NH- group, that nitrogen may be optionally substituted by a group selected from R^{38} ;

n is 1-3; wherein the values of R^7 may be the same or different;

- R^{17} , R^{18} , R^{19} , R^{23} , R^{25} , R^{29} , R^{31} and R^{37} are independently selected from halo, nitro, cyano, hydroxy, amino, carbamoyl, mercapto, sulphamoyl, hydroxyaminocarbonyl, C_{1-10} alkyl, C_{2-10} alkenyl, C_{2-10} alkynyl, C_{1-10} alkoxy, C_{1-10} alkanoyl, C_{1-10} alkanoyloxy, N -(C_{1-10} alkyl)amino, N,N -(C_{1-10} alkyl)₂amino, N,N,N -(C_{1-10} alkyl)₃ammonio, C_{1-10} alkanoylamino, N -(C_{1-10} alkyl)carbamoyl, N,N -(C_{1-10} alkyl)₂carbamoyl, C_{1-10} alkylS(O)_a wherein a is 0 to 2, N -(C_{1-10} alkyl)sulphamoyl, N,N -(C_{1-10} alkyl)₂sulphamoyl, N -(C_{1-10} alkyl)sulphamoylamino, N,N -(C_{1-10} alkyl)₂sulphamoylamino, C_{1-10} alkoxycarbonylamino, carbocyclyl, carbocyclyl C_{1-10} alkyl, heterocyclyl, heterocyclyl C_{1-10} alkyl, carbocyclyl-(C_{1-10} alkylene)_p- R^{32} -(C_{1-10} alkylene)_q- or heterocyclyl-(C_{1-10} alkylene)_r- R^{33} -(C_{1-10} alkylene)_s-; wherein R^{17} , R^{18} , R^{19} , R^{23} , R^{25} , R^{29} , R^{31} and R^{37} may be independently optionally substituted on carbon by one or more R^{34} ; and
- wherein if said heterocyclyl contains an -NH- group, that nitrogen may be optionally substituted by a group selected from R^{35} ;

R^{21} , R^{22} , R^{27} , R^{28} , R^{32} or R^{33} are independently selected from -O-, -NR³⁶-, -S(O)_x-, -NR³⁶C(O)NR³⁶-, -NR³⁶C(S)NR³⁶-, -OC(O)N=C-, -NR³⁶C(O)- or -C(O)NR³⁶-; wherein R^{36} is selected from hydrogen or C_{1-6} alkyl, and x is 0-2;

- p , q , r and s are independently selected from 0-2;

- R^{34} is selected from halo, hydroxy, cyano, carbamoyl, ureido, amino, nitro, carbamoyl, mercapto, sulphamoyl, trifluoromethyl, trifluoromethoxy, methyl, ethyl, methoxy, ethoxy, vinyl, allyl, ethynyl, formyl, acetyl, formamido, acetylamino, acetoxymethyl, methylamino, dimethylamino, N -methylcarbamoyl, N,N -dimethylcarbamoyl, methylthio, methylsulphinyl, mesyl, N -methylsulphamoyl, N,N -dimethylsulphamoyl, N -methylsulphamoylamino and N,N -dimethylsulphamoylamino;

- R^{20} , R^{24} , R^{26} , R^{30} , R^{35} and R^{38} are independently selected from C_{1-6} alkyl, C_{1-6} alkanoyl, C_{1-6} alkylsulphonyl, C_{1-6} alkoxycarbonyl, carbamoyl, N -(C_{1-6} alkyl)carbamoyl, N,N -(C_{1-6} alkyl)carbamoyl, benzyl, benzyloxycarbonyl, benzoyl and phenylsulphonyl; or a pharmaceutically acceptable salt, solvate, solvate of such a salt or a prodrug thereof.

2. A compound of formula (I) as claimed in claim 1 wherein R^v is hydrogen or a pharmaceutically acceptable salt, solvate, solvate of such a salt or a prodrug thereof.
3. A compound of formula (I) as claimed in either of claims 1 or 2 wherein R¹ and R² are both butyl or a pharmaceutically acceptable salt, solvate, solvate of such a salt or a prodrug thereof.
4. A compound of formula (I) as claimed in any one of claims 1-3 wherein R^x and R^y are both hydrogen or a pharmaceutically acceptable salt, solvate, solvate of such a salt or a prodrug thereof.
5. A compound of formula (I) as claimed in any one of claims 1-4 wherein v is 0 or a pharmaceutically acceptable salt, solvate, solvate of such a salt or a prodrug thereof.
6. A compound of formula (I) as claimed in any one of claims 1-7 wherein R³ and R⁶ are both hydrogen or a pharmaceutically acceptable salt, solvate, solvate of such a salt or a prodrug thereof.
7. A compound of formula (I) as claimed in any one of claims 1-6 wherein R⁴ is methylthio or a pharmaceutically acceptable salt, solvate, solvate of such a salt or a prodrug thereof.
8. A compound of formula (I) as claimed in any one of claims 1-7 wherein R⁵ is a group of formula (IA) (as depicted in claim 1) wherein:
- X is -O-;
- Ring A is aryl; wherein Ring A is optionally substituted on carbon by one or more substituents selected from R¹⁸;
- R⁷ is hydrogen;
- R⁸ is hydrogen;
- R⁹ is hydrogen;
- R¹⁰ is a group of formula (IB) (as depicted above);
- R¹¹ is hydrogen;

R^{12} and R^{13} are independently selected from hydrogen or C_{1-10} alkyl;

R^{14} is selected from C_{1-10} alkyl, carbocyclyl C_{1-10} alkyl and heterocyclyl; wherein R^{14} may be optionally substituted on carbon by one or more substituents selected from R^{29} ; or R^{14} is a group of formula (IC) (as depicted above);

5 R^{15} and R^{16} together with the nitrogen to which they are attached form a heterocyclyl; wherein said heterocyclyl may be optionally substituted on carbon by one or more R^{37} ;

n is 1;

R^{18} , R^{29} and R^{37} are independently selected from hydroxy and N -(C_{1-10} alkyl)carbamoyl; wherein R^{18} , R^{29} and R^{37} may be independently optionally substituted on carbon by one or more R^{34} ; and

R^{34} is carbamoyl.

9. A compound of formula (I) (as depicted in claim 1) wherein:

R^v is selected from hydrogen;

15 R^1 and R^2 are both butyl;

R^x and R^y are both hydrogen;

v is 0;

R^3 and R^6 are both hydrogen;

R^4 is methylthio; and

20 R^5 is selected from:

N -{(R)- α -[N -(2-(S)-3-(R)-4-(R)-5-(R)-2,3,4,5,6-pentahydroxyhexyl)carbamoyl]benzyl} carbamoylmethoxy;

N -{(R)- α -[N -(2-(S)-3-(R)-4-(R)-5-(R)-2,3,4,5,6-pentahydroxyhexyl)carbamoyl]-4-hydroxybenzyl} carbamoylmethoxy;

25 N -{(R/S)- α -[N -[1-(R)-2-(S)-1-hydroxy-1-(3,4-dihydroxyphenyl)prop-2-yl]carbamoyl]-4-hydroxybenzyl} carbamoylmethoxy;

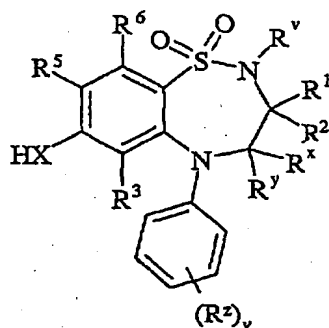
N -[(R)- α -(N -[2-(S)-[N -(carbamoylmethyl) carbamoyl]pyrrolidin-1-ylcarbonylmethyl} carbamoyl)benzyl] carbamoylmethoxy;

N -{(R)- α -[N -[2-(3,4,5-trihydroxyphenyl)ethyl]carbamoyl]benzyl} carbamoylmethoxy; and

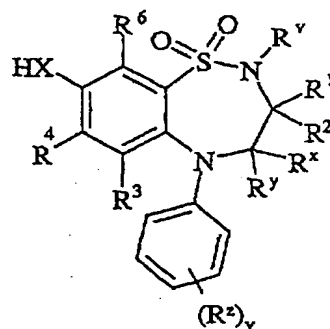
30 N -{(R)- α -[N -(2-(R)-3-(S)-4-(S)-5-(R)-3,4,5,6-tetrahydroxytetrahydropyran-2-ylmethyl)carbamoyl]benzyl} carbamoylmethoxy;

or a pharmaceutically acceptable salt, solvate, solvate of such a salt or a prodrug thereof.

10. A compound of formula (I) selected from:
- 1,1-Dioxo-3,3-dibutyl-5-phenyl-7-methylthio-8-(*N*-{(R)- α -[*N*-(2-(S)-3-(R)-4-(R)-5-(R)-2,3,4,5,6-pentahydroxyhexyl)carbamoyl]benzyl}carbamoylmethoxy)-2,3,4,5-tetrahydro-1,2,5-benzothiadiazepine;
- 5 1,1-Dioxo-3,3-dibutyl-5-phenyl-7-methylthio-8-(*N*-{(R)- α -[*N*-(2-(S)-3-(R)-4-(R)-5-(R)-2,3,4,5,6-pentahydroxyhexyl)carbamoyl]-4-hydroxybenzyl}carbamoylmethoxy)-2,3,4,5-tetrahydro-1,2,5-benzothiadiazepine;
- 1,1-Dioxo-3,3-dibutyl-5-phenyl-7-methylthio-8-[*N*-((R/S)- α -{*N*-[1-(R)-2-(S)-1-hydroxy-1-(3,4-dihydroxyphenyl)prop-2-yl]carbamoyl]-4-hydroxybenzyl}carbamoylmethoxy)-2,3,4,5-
- 10 tetrahydro-1,2,5-benzothiadiazepine;
- 1,1-Dioxo-3,3-dibutyl-5-phenyl-7-methylthio-8-{*N*-[(R)- α -{*N*-{2-(S)-[*N*-(carbamoylmethyl)carbamoyl]pyrrolidin-1-ylcarbonylmethyl}carbamoyl]benzyl}carbamoylmethoxy}-2,3,4,5-tetrahydro-1,2,5-benzothiadiazepine;
- 1,1-Dioxo-3,3-dibutyl-5-phenyl-7-methylthio-8-[*N*-((R)- α -{*N*-[2-(3,4,5-
- 15 trihydroxyphenyl)ethyl]carbamoyl]benzyl)carbamoylmethoxy]-2,3,4,5-tetrahydro-1,2,5-benzothiadiazepine; and
- 1,1-Dioxo-3,3-dibutyl-5-phenyl-7-methylthio-8-(*N*-{(R)- α -[*N*-(2-(R)-3-(S)-4-(S)-5-(R)-3,4,5,6-tetrahydroxytetrahydropyran-2-ylmethyl)carbamoyl]benzyl}carbamoylmethoxy)-2,3,4,5-tetrahydro-1,2,5-benzothiadiazepine;
- 20 or a pharmaceutically acceptable salt, solvate, solvate of such a salt or a prodrug thereof.
11. A process for preparing a compound of formula (I) as claimed in claims 1-10 or a pharmaceutically acceptable salt, solvate, solvate of such a salt or a prodrug thereof which process comprises of:
- 25 *Process I*): for compounds of formula (I) wherein X is -O-, -NR^a or -S-; reacting a compound of formula (IIa) or (IIb):

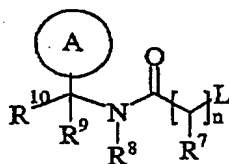


(IIa)



(IIb)

with a compound of formula (III):

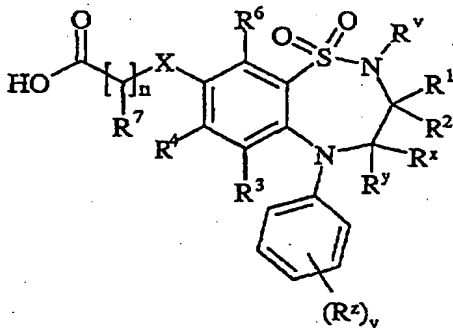


(III)

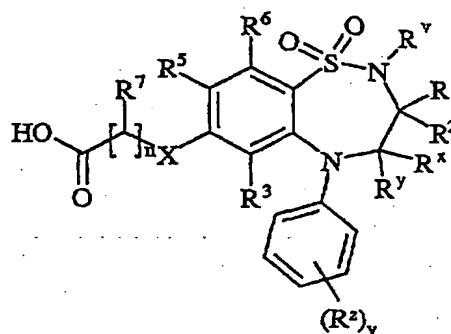
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wherein L is a displaceable group;

Process 2): reacting an acid of formula (IVa) or (IVb):

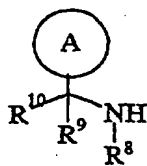


(IVa)



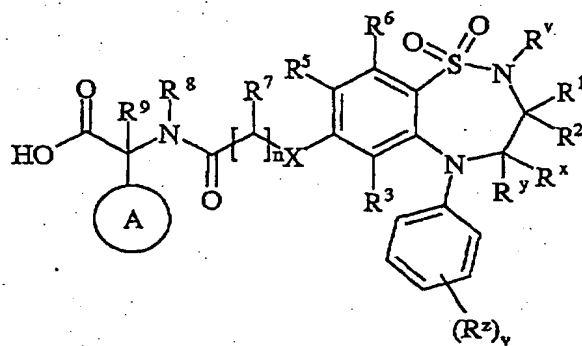
(IVb)

10 or an activated derivative thereof; with an amine of formula (V):



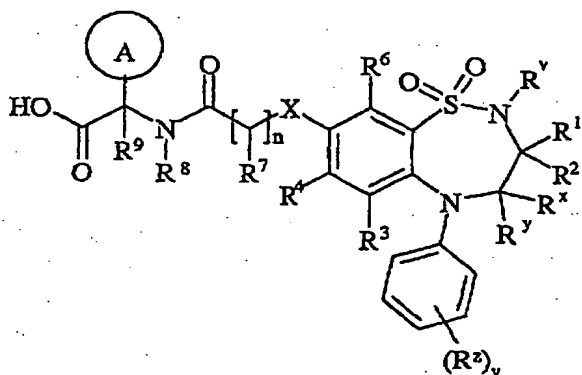
(V);

Process 3): for compounds of formula (I) wherein R^{10} is a group of formula (IB); reacting a compound of formula (VIa):



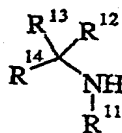
(VIa)

5 or (VIb):



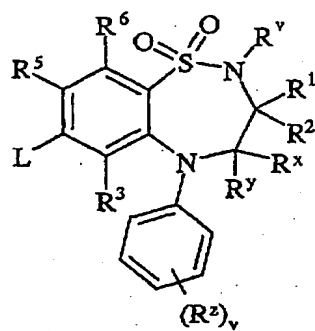
(VIb)

with an amine of formula (VII):

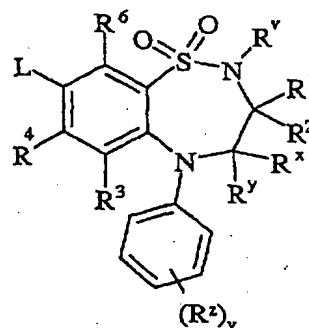


(VII)

Process 4) for compounds of formula (I) wherein one of R^4 and R^5 are independently selected from C_{1-6} alkylthio optionally substituted on carbon by one or more R^{17} ; reacting a compound of formula (VIIIa) or (VIIIb):



(VIIIa)



(VIIIb)

wherein L is a displaceable group; with a thiol of formula (IX):

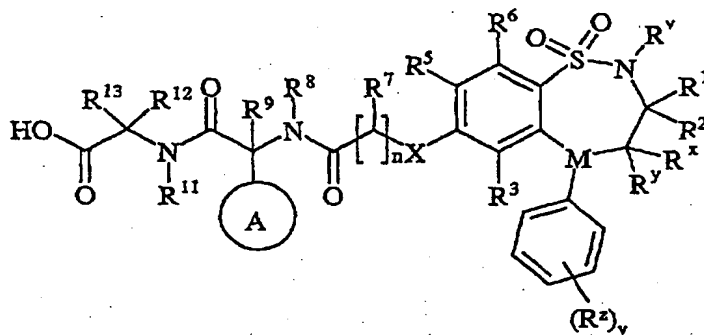


(IX)

5

wherein R^m is C₁₋₆alkylthio optionally substituted on carbon by one or more R¹⁷; or

Process 5): for compounds of formula (I) wherein R¹⁴ is a group of formula (IC); reacting a compound of formula (Xa):

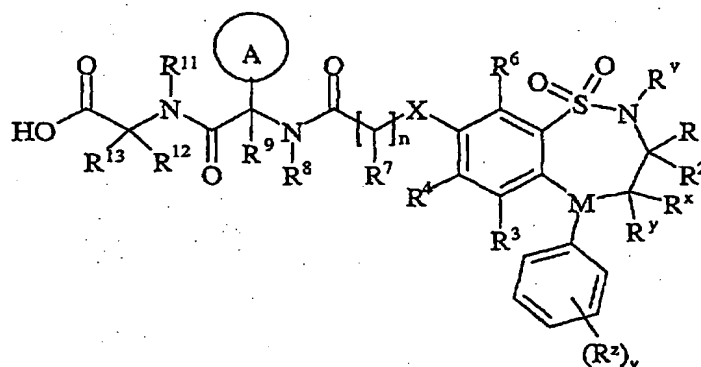


(Xa)

10

15

or (Xb):



(Xb)

with an amine of formula (XI):



(XI)

and thereafter if necessary or desirable:

- i) converting a compound of the formula (I) into another compound of the formula (I); and/or
- ii) removing any protecting groups; and/or
- 10 iii) forming a pharmaceutically acceptable salt, solvate, solvate of such a salt or a prodrug.

12. A compound of the formula (I), or a pharmaceutically acceptable salt, solvate, solvate of such a salt or a prodrug thereof, as claimed in any one of claims 1 to 10 for use as a medicament.

15

13. A compound of formula (I), or a pharmaceutically acceptable salt, solvate, solvate of such a salt or a prodrug thereof, as claimed in any one of claims 1 to 10 for use in a method of prophylactic or therapeutic treatment of a warm-blooded animal, such as man.

20

14. The use of a compound of the formula (I), or a pharmaceutically acceptable salt, solvate, solvate of such a salt or a prodrug thereof, as claimed in any one of claims 1 to 10 in the manufacture of a medicament for use in the production of an IBAT inhibitory effect in a warm-blooded animal, such as man.

15. The use of a compound of the formula (I), or a pharmaceutically acceptable salt, solvate, solvate of such a salt or a prodrug thereof, as claimed in any one of claims 1 to 10, in the production of an IBAT inhibitory effect in a warm-blooded animal, such as man.
- 5 16. A method for producing an IBAT inhibitory effect in a warm-blooded animal, such as man, in need of such treatment which comprises administering to said animal an effective amount of a compound of formula (I), or a pharmaceutically acceptable salt, solvate, solvate of such a salt or a prodrug thereof, as claimed in any one of claims 1 to 10.
- 10 17. A pharmaceutical composition which comprises a compound of formula (I), or a pharmaceutically acceptable salt, solvate, solvate of such a salt or a prodrug thereof, as claimed in any one of claims 1 to 10, in association with a pharmaceutically-acceptable diluent or carrier.
- 15 18. A pharmaceutical composition which comprises a compound of formula (I), or a pharmaceutically acceptable salt, solvate, solvate of such a salt or a prodrug thereof, as claimed in any one of claims 1 to 10, and an HMG Co-A reductase inhibitor, or a pharmaceutically acceptable salt, solvate, solvate of such a salt or a prodrug thereof, in association with a pharmaceutically acceptable diluent or carrier.
- 20 19. A pharmaceutical composition which comprises a compound of formula (I), or a pharmaceutically acceptable salt, solvate, solvate of such a salt or a prodrug thereof, as claimed in any one of claims 1 to 10, and a bile acid binder, in association with a pharmaceutically acceptable diluent or carrier.
- 25 20. A pharmaceutical composition which comprises a compound of formula (I), or a pharmaceutically acceptable salt, solvate, solvate of such a salt or a prodrug thereof, as claimed in any one of claims 1 to 10, and an HMG Co-A reductase inhibitor, or a pharmaceutically acceptable salt, solvate, solvate of such a salt or a prodrug thereof, and a bile acid binder in association with a pharmaceutically acceptable diluent or carrier.
- 30

21. A composition according to claim 18 or claim 20 wherein the HMG Co-A reductase inhibitor is atorvastatin, or a pharmaceutically acceptable salt, solvate, solvate of such a salt or a prodrug thereof.
- 5 22. A composition according to claim 18 or claim 20 wherein the HMG Co-A reductase inhibitor is rosuvastatin, or a pharmaceutically acceptable salt thereof.
23. A pharmaceutical composition which comprises a compound of formula (I), or a pharmaceutically acceptable salt, solvate, solvate of such a salt or a prodrug thereof, as
10 claimed in any one of claims 1 to 10 and a PPAR alpha and/or gamma agonist, or a pharmaceutically acceptable salt thereof, in association with a pharmaceutically acceptable diluent or carrier.
24. A composition according to claim 23 wherein the PPAR alpha and/or gamma agonist
15 is (S)-2-ethoxy-3-[4-(2-[4-methanesulphonyloxyphenyl]ethoxy)phenyl]propanoic acid or a pharmaceutically acceptable salt thereof.

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